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The NEUT Neutrino Interaction Simulation

Friday, August 5, 2022 12:15 PM (20 minutes)

NEUT is a neutrino-nucleus interaction simulation. It can be used to simulate interactions for neutrinos with between 100 MeV and a few TeV of energy. NEUT is also capable of simulating hadron interactions within a nucleus and is used to model nucleon decay and hadron–nucleus interactions for particle propagation in detector simulations. This talk describes the range of interaction channels modelled within NEUT, providing details on how each is implemented and on the tools available for propagating associated uncertainties. A range of comparisons of NEUT predictions to lepton and hadron scattering data are also shown.

Attendance type

Virtual presentation

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